

From: [Scholl, Matthew \(Fed\)](#)
To: [Williams, Carl J. Dr. \(Fed\)](#)
Cc: [Romine, Charles H. \(Fed\)](#); [Cooper, Michael Joseph \(Fed\)](#); [Chen, Lily \(Fed\)](#)
Subject: Re: Fwd: Discussion business value of Certified Random Number Generation
Date: Saturday, August 24, 2019 11:18:58 AM

We should loop in Mike Cooper to see who in this FIPS program would be helpful and perhaps Lily as well.

----- Original Message -----

From: "Williams, Carl J. Dr. (Fed)" <carl.williams@nist.gov>
Date: Sat, August 24, 2019 10:23 AM -0400
To: "Scholl, Matthew (Fed)" <matthew.scholl@nist.gov>
CC: "Romine, Charles H. (Fed)" <charles.romine@nist.gov>
Subject: Fwd: Discussion business value of Certified Random Number Generation

Matt

I don't know enough about FIPS to comment? Who should be looped in?

Carl

From: "Alan Ho" <alankho@google.com>
Subject: Discussion business value of Certified Random Number Generation
Date: 24 August 2019 08:59
To: "Williams, Carl J. Dr. (Fed)" <carl.williams@nist.gov>

Hi Carl,

Google is starting to put together the business case for deploying our quantum computer in production for providing additional entropy into our key management services.

As you can imagine, the cost to develop and deploy our quantum computers into production will cost significant amount of money. Therefore we want to get a NIST's on the value of improving certified random number generators.

One of the major unknown factors in the development cost and procedure for FIPS certification. We'd like to make sure that if we go forward with development, that NIST has the ability to support the FIPS certification process.

Would you have time next week between Monday and Wednesday to discuss ?

Otherwise, would you be available to discuss the week of Sept 9th ?

Regards,
Alan Ho